

POLUNIN, Ye.Ye.

Using the Molchanov automatic device for breaking cement corks.
Neftianik 3 no.2:12-13 P '58. (MIRA 11:4)

1. Starshiy inzhener proizvodstvenno-tekhnicheskogo otdela nefte-
promyshlennogo upravleniya Voyvozhneft'.
(Oil wells--Equipment and supplies--Repairing)

POLUNIN, Ye.Ye.

Equipping a gas production field in the northern regions of the
Komi A.S.S.R. Gaz. delo no.12:6-10 '63. (MIRA 17:10)

1. Voy-Vozhskoye neftepromyslovoye upravleniye.

AD'YASEVICH, B. P.; ANTONENKO, B. G.; POLUNIN, Yu.P.; FOMENKO, D.Ye.

Source of polarized ions. Atom. energ. 17 no.1:17-22 J1 '64.
(MIRA 17:7)

POLUNIN, Yu.P., ADIASEVICH, B.P., BELYAYEV, S.T., ZAVOYSKIY, Ye.K.

"Sources of Polarized Particles."

paper submitted at the All-Union Conf. on Nuclear Reactions in Medium and Low Energy Physics, Moscow, 19-27 1957.

POLUNIN, Ye. Ye.

POLUNIN, Ye. Ye.

New highly effective valve. Neftianik 2 no.6:22-23 Je '57.

(MIRA 10:10)

1. Inzhener proizvodstvennogo otдела Vozvoshskogo neftepromyslovogo
Upravleniya Ukhtkombinata Glavgaza SSSR.

(Gas wells-Equipment and supplies)

92-2-14/37

Polunin Ye. Ye.
AUTHOR: Polunin, Ye. Ye., Senior Engineer
TITLE: Drilling Cement Plugs with Molchanov's Automatic
 Device (Razburivaniye tsementnykh probok avtomatom
 Molchanova)

PERIODICAL: Neftyanik, 1958, Nr 2, pp 12-13 (USSR)

AUTHOR: The author states that in the process of recondition-
 ing oil or gas wells it may become necessary to drill cement
 plugs. This operation is complicated and takes much time. Be-
 fore Molchanov's device was introduced in the oil fields operat-
 ing under the Ukhtkombinat, cement plugs were drilled with a
 rotary drilling unit driven by an LT2M-80 tractor or the BA-20m
 machine. This operation lasted several weeks. Therefore,
 I.G. Bakardzhiyev, mechanic of the Ukhtkombinat, proposed the
 use of a slight modification of Molchanov's device for this
 purpose. As a result of this modification the device designed
 originally for sinking and lifting pump tubings was enabled to
 break up cement plugs in a 5-in. or 6-in. bore-hole at a depth
 of some 1,000 m. Cutter bits 4 3/4-in. or 5 3/4-in. in diameter,
 attached to pump tubing, were used for this purpose. Molchanov's
 device for drilling cement plugs in well shafts proved more

Card 1/2

IPPOLITOVA, Ye.A.; SIMANOV, Yu.P.; KOVBA, L.M.; POLUNINA, G.P.;
BEREZNIKOVA, I.A.

Chemistry of the uranates of some divalent elements. Radio-
khimiia 1 no.6:660-664 '59. (MIRA 13:4)
(Uranates)

KOVBA, L.M.; POLUNINA, G.P.; IPPOLITOVA, Ye.A.; SIMANOV, Yu.P.;
SPITSYN, Vikt.I.

Study of the crystalline structure of uranates. Part 2: Uranates
containing uranyl oxygen chains. Zhur. fiz. khim. 35 no. 4:719-
722 Ap '61. (MIRA 14:5)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova,
kafedra neorganicheskoy khimii.
(Uranates)

CHEMBERLIN, E.Kh. [Chamberlin, E.H.]; LEYKIN, E.G. [translator];
ROZOVSKIY, L.Ya. [translator]; OL'SEVICH, O.Ya., red.;
POLUNINA, G.V., mladshiy red.; KHOMYAKOV, A.D., tekhn.red.

[The theory of monopolistic competition; a re-orientation of
the theory of value] Teoriia monopolisticheskoi konkurentsii;
reorientatsiia teorii stoimosti. Moskva, Izd-vo inostr.lit-ry.
1959. 414 p. Translated from the English. (MIRA 13:8)
(Monopolies) (Competition) (Economics)

POLUNINA, L.A.

New data on ultrabasic rocks in the Chadobets Upland. Inform.
sbor.VSEGEI no.40:77-91 :60. (MIRA 14:12)
(Chadobets Valley--Rocks, Igneous)

POLUNINA, L.A.

Manifestation characteristics of the hydrothermal activity in iron
ore deposits of the Angara-Ilim type. Mat.VSEGEI Ob.ser. no.23:
144-157 '59. (MIRA 14:11)

(Ilim Valley--Iron ores)

POLUNINA, L.A.

Metasomatic zoning in iron ore deposits of the Angara-Ilin type.
Mat. VSEGEI no.31:111-118 '60. (MIRA 14:3)
(Iron ores)

SMOVSKAYA, I.A.; SAMTSOVA, L.M.; POLUNINA, L.G.

Studying the petroleum of certain fields of the Crimea and
Black Sea region. Trudy UkrNIGRI no.7:242-249. '63.
(MIRA 1981)

POLUNINA, N., inzh.

Apparatus for producing pellet feeds. Mukh.-elev. prom. 24 no.4:
15-16 Ap '58. (MIRA 11:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i produktov
yego pererabotki. (Feed mills)

POLUNINA, N. I., Cand Tech Sci -- (diss) "Research into the technological process of the production of granulated combined food mixtures." Moscow, 1960. 19 pp; (Ministry of Higher and Secondary Specialist Education USSR, Moscow Technological Inst of Food Industry); 150 copies; price not given; (KL, 19-60, 135)

POLUNINA, Nina Ivanovna; SAMOYLOVA, G.V., red.; GOLUBKOVA, L.A.,
tekhn. red.

[Production of granulated mixed feeds] Proizvodstvo granulirovan-
nykh kombikormov. Moskva, Zagotizdat, 1962. 47 p. (MIRA 15:6)
(Feeds)

TSINGER, N.V.; YODDURKAYA-ARNOL'DI, V.A.; PETROVSKAYA, T.P.; POLUNINA, N.N.

Causes of apomixis; histochemical study of female generative
organs in apomictic representatives of Taraxacum and Citrus.
Trudy MOIF.Otd. biol. 13:201-237 '65. (MIRA 19:1)

POLJUNINA, N.N.

Comparative embryological study on some representatives of
Myrtaceae. Biul. Glav. bot. sada. no.49:82-90 '63. (MIRA 16:8)

1. Glavnyy botanicheskiy sad AN SSSR.
(Botany---Embryology) (Myrtle)

POLUNINA, N.N.

Biology of the flowering and embryology of eucalyptus. Trudy
Glav.bot.sada 6:191-210 '59. (MIRA 13:5)
(Eucalyptus)

AUTHOR: Polunina, N. N.

20-4-53/60

TITLE: A Comparative Study of the Embryology and Biology of the Flowering of Certain Eucalyptus Species (Sravnitel'noye izucheniye embriologii i biologii usveteniya nekotorykh vidov evkalipta).

PERIODICAL: Doklady Akademii Nauk, 1957, Vol. 115, Nr 4, pp. 819-821 (USSR).

ABSTRACT: In spite of the extensive distribution and the great economic importance of the representatives of the Eucalyptus L'Hérit species embryological data concerning this species lack nearly completely. The few works known are quoted. The present work aims at the purpose given in the title. 8 species originating from the Caucasian Black Sea were studied. The development and the structure of the generative organs is similar with all species investigated, therefore mainly. E. cinerea is described. These organs are described in detail in the following. The eucalypts are distinguished by a long lasting ripening of the flower buds.

In the case that this period lasts for more than one year the seminal buds generally are in the 2-4 nucleoli stage.

In the case of E. Macarthuri and E. pauciflora the seed buds show a differentiated embryo sack already in winter. In June 1951 an artificial pollination of the first species and in November-December of the

Card 1/2

A Comparative Study of the Embryology and Biology of the
Flowering of Certain Eucalyptus Species.

20-4-53/60

same year of the E.cinera was carried out. Moreover the entering of the pollen tube and the fertilization are described. All stages of the generative development take place much more rapidly in the case of the spring species than in the case of the winter species. In spite of the great number of the seminal buds in the ovary of the eucalyptus only few fertile seeds are formed in the fruit (2-5 in the case of E.cinera). The embryological investigation of the ancient species eucalyptus (the fossil rests of which were found in the upper cretaceous and the tertiary age) in the case of several species of various sections a great similarity of the embryological characteristics. This obviously demonstrates the lifelikeness of this important species and its ancient origin.

There are 1 figure, 1 table, and 3 Slavic references.

Main Botanic Garden of the AN of the USSR.

ASSOCIATION. (Glavnyy botanicheskiy sad Akademii nauk SSSR).

PRESENTED. By N. V. Tsitsin, Academician, Feb. 25, 1957

SUBMITTED. February 25, 1957.

AVAILABLE. Library of Congress.

Card 2/2

POLUNINA, N.N.

Relationship between the color of pollen and the growth rate of
pollen tubes. Biul. Glav. bot. sada no.34:67-88 '59 (MIRA 13:3)

1. Glavnyy botanicheskiy sad Akademii nauk SSSR.
(Pollen)

POLUNINA, N.N.

A comparative study of the embryology and biology of the flowering
of certain *Eucalyptus* species. Dokl. AN SSSR 115 no.4:819-821 Ag
'57. (MIRA 10:12)

1. Glavnyy botanicheskiy sad AN SSSR. Predstavleno akademikom N.V.
TSitsinym.

(*Eucalyptus*)

POLUNINA N.N.

POLUNINA, N.N.

Materials on the biology of flowering and embryology of feijoa.
Biol. Glav. bot. sada no.29:60-71 '57. (MIRA 11:1)

1. Glavnyy botanicheskiy sad AN SSSR,
(Feijoa)

POJUNINA, N.N.

Biology of the flowering and embryology of *Callistemon lanceolatus*
D.C. Dokl. AN SSSR 116 no.2:315-318 8 '57. (MIRA 11:2)

1. Glavnyy botanicheskiy sad AN SSSR, Predstavleno akademikom N.V.
TSitsinym.

(*Callistemon*)

POLUNINA, N.N.

Biology of flowering and embryology of *Callistemon lanceolatus* Sweet.
Bot. zhur. 43 no.8:1169-1178 Ag '58. (MIRA 11:9)

1. Glavnyy botanicheskiy sad AN SSSR, Moskva.
(*Callistemon*) (Botany--Embryology)

POLUNINA, N. N.

20-2-43/50

AUTHOR: Polunina, N. N.

TITLE: On the Biology of Flowering and Embryology of Callistemon lanceolatus D.C. (K biologii tsveteniya i embriologii Callistemon lanceolatus D.C).

PERIODICAL: Doklady AN SSSR, 1957, Vol. 116, Nr 2, pp. 315-318 (USSR)

ABSTRACT: This myrtaceae genus contains more than 20 species from Australia and New Zealand. Since the embryological data about it lack almost completely, the author studied the mentioned species under glass-house conditions. The structure of the flower parts is described. The order of the structure of the single flower organs corresponds to that of Eucalyptus which belongs to the same family. The small seminal buds which exist in great quantity are an atropic and have two integuments each of which consists of 2 series of cells like most of the myrtaceae. Nucellus is relatively only to a small extent developed. The archesporial cell secretes the cover-cell which is several times divided. Since the upper cell of the diade is not divided only 3 macrospores are formed which are placed linearly. The lower cell forms according to normal formation type the embryo-sac. The antipodes die quickly. The polar nuclei remain long time unmelted. The egg-apparatus consists of a somewhat extended egg cell which is enlarged in its lower part.

Card 1/4

Card 2/4

... macrospere cores takes place very soon. The second sperm comes to the egg cell till it comes completely into contact with

On the Biology of Flowering and Embryology of *Callistemon*
Lanceolatus D. C.

20-2-43/50

its core. Only 18-19 days after the pollination the nucleolus of the sperm becomes visible. Its core differs now from that of the egg cell only by the smaller size. The melting of the cores in the zygote was noticed in the earliest case on the 32nd day after the fructification. Thus the fructification of the egg cell takes place 2 weeks later than the triple melting. The first division of the zygote was noticed on the 29th day after the pollination. The fetal development takes place according to the solanaceae type. The ripe embryo is described. The reserve substances are in its body, as proteins, amino acids, and fats. The endosperm is almost completely consumed. The nucellus almost completely destroyed. The bursting of the fruits and protrusion of the seeds occurs 2-3 years after the pollination. Rather often nucellar embryos are formed instead of zygote embryos. If both embryo types are produced at least 2 embryos result. This phenomenon is to be sought in further representatives of the family. Apparently there is an inclination to it due to heredity. There are 2 figures, 2 tables, 21 references, 19 of which are Slavic.

Card 3/4

On the Biology of Flowering and Embryology of *Callistemon* 20-2-43/50
-*Lanceolatus* D.C.

ASSOCIATION: ~~Main Botanical Garden~~ AN USSR (Glavnyy botanicheskiy sad Akad-
emii nauk SSSR)

PRESENTED: June 15, 1957, by N. V. Tsitsin, Academician

SUBMITTED: June 4, 1957

AVAILABLE: Library of Congress

Card 4/4

POLUNINA, N.N.

Development of the flower of eucalyptus. Biol.Glav.bot.sada no.16:
69-79 '53. (MLRA 7:4)

1. Glavnyy botanicheskiy sad Akademii nauk SSSR.
(Eucalyptus)

POLUNINA, N. N. Cand Biol Sci -- (diss) ^{*Blooming*} "Biology of the ~~flowering~~, and
the embryology of certain representatives of the myrtle family." Mos, 1958.
16 pp (Mos Order of Lenin and Order of Labor Red Banner State Univ im
M. V. Lomonosov. Main Botanical Garden, Acad Sci USSR), 130 copies

(KL, 13-58, 95) *List of author's works, end of text*

Polunina, N. N.

PODUBNAYA-JOSSELY, V. A.; TRIMMER, M. V.; PETROVSKAYA, T. P.; POLUNINA, N. N.
"Histochemical study of Pollen Tubes in the Angiosperms"
Paper submitted for the Int'l Botanical Congress, Montreal, Canada, 19-29 Aug 1959.
Main Botanical Gardens, Academy of Sciences U.S.S.R., Moscow.

17(1)

AUTHORS:

Polunina, N. N., Svoshnikov, A. I.

SOV/20-127-1-60/65

TITLE:

Microfilming in the Investigation of the Pollen and Pollen Tubes of Certain Amaryllidaceae (Mikrokinos" yemka pri izuchenii pyl'tsy i pyl'tsevykh trubok nekotorykh amarillisovykh)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 1, pp 217-219 (USSR)

ABSTRACT:

At the Laboratoriya fiziologii razvitiya rasteniy (Laboratory of the Physiology of Plant Development) of the gardens mentioned in the Association, a time-lapse device is used for micro-filming. The work is carried out under the supervision of Professor V. A. Poddubnaya-Arnol'di (Mrs.) in cooperation with the cinematographical laboratory of the studio Mosnauchfilm. This new and extremely important method of investigating the course of vital functions in living material yields sometimes a very convincing solution of some controversial biological ~~problems~~. The debate carried on in the publications since a long time concerning the character of the movements of the masculine sexcells in higher plants, whether passive or active, could be definitely decided by the photographing methods mentioned.

Card 1/3

Microfilming in the Investigation of the Pollen and
Pollen Tubes of Certain Amaryllidaceae

SOV/20-127-1-60/65

Pollen of a hybrid amaryllis species (cultivated by V.N. Shmygun) furthermore of *Clivia miniata* and *Crinum abyssinicum* were chosen for this purpose. The pollen was caused to germinated on a synthetic culture medium at 25°, and sown on a culture medium layer on an object carrier. After cutting furrows into the culture medium for air supply all was covered by glass and sealed with paraffin to prevent desiccation. Best results were obtained with a 24-120-fold exposure-acceleration, i.e. 1 - 5 exposures per second. The entire photographed process, beginning with the germination of the pollen nucleus up to the division of the generative cells and the spermatozoa formation (18-24 hours) is observed within 15-20 minutes. It is described in detail and illustrated (Figs 1-3). It is obviously demonstrated that the generative cell and the spermatozoa do not move passively with the plasma current, but move independently actively. They overcome, sometimes with difficulty, such obstacles as counter currents of the plasma or a bottle-neck in the pollen tube. The deceleration and even the stoppage of the movements of the generative cell during division when the

Card 2/3

Microfilming in the Investigation of the Pollen and
Pollen Tubes of Certain Amaryllidaceae

SOV/20-127-1-60/65

plasma moves with equal velocity, are also an obvious proof
of the independent activity of the generative cell.
There are 3 figures and 8 references, 5 of which are Soviet.

ASSOCIATION: Glavnyy botanicheskiy sad Akademii nauk SSSR
(Main Botanic Garden of the Academy of Sciences, USSR)

PRESENTED: January 21, 1959, by N. V. Tsitsin, Academician

SUBMITTED: January 2, 1959

Card 3/3

PODDUBNAYA-ARNOL'DI, V.A.; TSINGER, N.V.; PETROVSKAYA, T.P.;
POLUNINA, N.H.

Histochemical investigation of the pollen and pollen tubes
in some angiosperms. Trudy Glav. bot. sada 8:162-194 '61.(MIRA 15:1)
(Angiosperms)
(Pollen)
(Plants—Chemical analysis)

POLUNINA, N.N.

Localization of ascorbic acid in nucellar embryony of
citrus plants. Biul.Glav.bot.sada no.58:66-73 '65.
(MIRA 18:12)

1. Glavnyy botanicheskiy sad AN SSSR.

72 L 9830-66
ACC NR: AP5028288

SOURCE CODE: UR/0020/65/165/002/0451/0453

AUTHOR: Polunina, O. A.; Eykhovskiy, B. Ye. (Academician)

28
B

ORG: MBIKFANS, LGU

ORG: Murmansk Marine Biological Institute AN. SSSR: Leningrad State University
im. A. A. Zhdanov (Murmanskiy morskoy biologicheskiy institut AN SSSR:
Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova)

TITLE: Ability of the starfish asterias rubens (L.) to differentiate the
saltiness of sea water

SOURCE: AN SSSR. Doklady, v. 165, no. 2, 1965, 451-453

TOPIC TAGS: experiment animal, sea water, environment test, nervous system

ABSTRACT: Barentsov sea starfish with normal and damaged nervous systems were
observed reacting to chemical changes of the environment. Adult starfish were
selected for the experiments with the length of the arms 7-8 cm. An apparatus
consisting of a 50-cm-diameter crystallizing basin, divided by partitions into

1/3

UDC: 563.93
2

L 9830-66

ACC NR: AP5028288

four unconnected sections and having a small pedestal in the center, was used so that the body of the starfish could rest on the pedestal and the arms laid in the sections. Sea water concentrations of 34, 28, 24, 22, 17, and 8‰ were used as well as fresh water and solutions of normal sea water (34‰) with $MgCl_2$, $CaCl_2$, KCl , and $NaCl$ from 5 to 0.5 g/l. The starfish always moved in the direction closest to the concentration of normal sea water, as shown in Table 1.

1) quantity g/l;
2) normal sea water; 3) sea water with addition of.

Таблица 1

1 Конц. солей, г/л	2 Норм. морск. вода	3 Морская вода с добавлением солей				4 Конц. солей, г/л	5 Норм. морск. вода	6 Морская вода с добавлением солей			
		NaCl	KCl	CaCl ₂	MgCl ₂			NaCl	KCl	CaCl ₂	MgCl ₂
0.5	+	+	+	+	+	4.5	+	+	-	-	-
1	+	+	+	+	+	5	+	+	-	-	-
2	+	+	-	-	-						

Table 1. (- positive moving reaction; - negative moving reaction.)

2/3

L 9830-66

ACC NR: AF5028288

The nervous system of starfish consists of five radial ectoneural cords running along ambulacral grooves and interconnected by means of a peristomatic ring. Above the ectoneural cords, but isolated from them, are the hyponeural cords (Lang's nerves). When the neural cords were severed from the peristomatic ring, the starfish lost their protective reaction, and their ability to select a suitable environment was impaired. After 18-20 days, the nervous system was regenerated and its functions restored. Orig. art. has: 1 figure and 1 table.

SUB CODE: 06/ SUBM DATE: 31Dec64/

NR REF SOV: 006/ OTHER: 003

HUJ
3/3

BALASHOV, Yu.S.; BIBIKOVA, B.A.; MURZAKHMETOVA, K.; POLUNINA, O.A.

Feeding and disorders in the valvular function of the proven-
tricus in fleas. Med. paraz.i paraz.bol. 34 no.4:471-476
Jl-Ag '65. (MIRA 18:12)

1. Zoologicheskiy institut AN SSSR i Sredne-Aziatskiy
nauchno-issledovatel'skiy protivochumnyy institut. Sub-
mitted May 8, 1963.

POIUNINA, O.A.

Ability of the starfish *Asterias rubens*(L.) to differentiate
the salinity of seawater. Dokl. AN SSSR 165 no.2:451-453 N
'65. (MIRA 18:11)

1. Murmanskij morskoy biologicheskiy institut AN SSSR i
Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova.
Submitted January 4, 1965.

LEVIN, I.S.; POLOVINKINA, R.A.; POLUNINA, O.M.

Completeness of the precipitation of indium from tin-containing materials. Zav.lab. 26 no.2:148-149 '60. (MIRA 13:5)

1. Nauchno-issledovatel'skiy institut olova Zapadno-sibirskogo filiala Akademii nauk SSSR.
(Indium--Analysis)

BAGDASAROV, A.A.; CHERTKOV, I.L.; POLUSHINA, T.V.

Effect of different dextran preparations on the survival of
mice with acute radiation injury. Radiobiologiya 2 no.1:
128-133 Ja '62 (MIRA 18:1)

POLUSHKIN, V.A.

Defining the concept 'document.' NTI no.5:8-10 '64.

(MIRA 17:10)

POGREBINSKAYA, Ye.A.; POLUNINA, V.N.

Finishing of dress fabrics made from cotton and "Laysan" polyester
fibers. Tekst. prom. 21 no. 4:36-38 Ap '61. (MIRA 14:7)
(Textile finishing)

25

✓

131 AND 132 ORDER

PROCESSES AND PROPERTIES INDEX

The introduction of viscose silk of greater strength.
 V. N. Polunina and S. R. Rabinovich. *Legkaya Prom.*
 10, No. 10, 50-51(1939); *Chem. Zentr.* 1040 I, 3470.

By the use of viscose silk of greater tensile strength fabrics
 were obtained the strength of which was 17-20% greater
 when dry and 25% greater when wet than that of samples
 of ordinary viscose silk with which they were compared.
 The production of fine-fiber yarn having a tensile strength
 of 3 g. per denier when dry and 0.8 g. per denier when wet
 is recommended. M. G. Moser.

ATD-3LA METALLURGICAL LITERATURE CLASSIFICATION

FROM SYNDICATE

FROM BOMBYX

FROM 131

FROM 132

FROM 133

FROM 134

FROM 135

FROM 136

FROM 137

FROM 138

FROM 139

FROM 140

FROM 141

FROM 142

FROM 143

FROM 144

FROM 145

FROM 146

FROM 147

FROM 148

FROM 149

FROM 150

FROM 151

FROM 152

FROM 153

FROM 154

FROM 155

FROM 156

FROM 157

FROM 158

FROM 159

FROM 160

FROM 161

FROM 162

FROM 163

FROM 164

FROM 165

FROM 166

FROM 167

FROM 168

FROM 169

FROM 170

FROM 171

FROM 172

FROM 173

FROM 174

FROM 175

FROM 176

FROM 177

FROM 178

FROM 179

FROM 180

FROM 181

FROM 182

FROM 183

FROM 184

FROM 185

FROM 186

FROM 187

FROM 188

FROM 189

FROM 190

FROM 191

FROM 192

FROM 193

FROM 194

FROM 195

FROM 196

FROM 197

FROM 198

FROM 199

FROM 200

FROM 201

FROM 202

FROM 203

FROM 204

FROM 205

FROM 206

FROM 207

FROM 208

FROM 209

FROM 210

FROM 211

FROM 212

FROM 213

FROM 214

FROM 215

FROM 216

FROM 217

FROM 218

FROM 219

FROM 220

FROM 221

FROM 222

FROM 223

FROM 224

FROM 225

FROM 226

FROM 227

FROM 228

FROM 229

FROM 230

FROM 231

FROM 232

FROM 233

FROM 234

FROM 235

FROM 236

FROM 237

FROM 238

FROM 239

FROM 240

FROM 241

FROM 242

FROM 243

FROM 244

FROM 245

FROM 246

FROM 247

FROM 248

FROM 249

FROM 250

FROM 251

FROM 252

FROM 253

FROM 254

FROM 255

FROM 256

FROM 257

FROM 258

FROM 259

FROM 260

FROM 261

FROM 262

FROM 263

FROM 264

FROM 265

FROM 266

FROM 267

FROM 268

FROM 269

FROM 270

FROM 271

FROM 272

FROM 273

FROM 274

FROM 275

FROM 276

FROM 277

FROM 278

FROM 279

FROM 280

FROM 281

FROM 282

FROM 283

FROM 284

FROM 285

FROM 286

FROM 287

FROM 288

FROM 289

FROM 290

FROM 291

FROM 292

FROM 293

FROM 294

FROM 295

FROM 296

FROM 297

FROM 298

FROM 299

FROM 300

FROM 301

FROM 302

FROM 303

FROM 304

FROM 305

FROM 306

FROM 307

FROM 308

FROM 309

FROM 310

FROM 311

FROM 312

FROM 313

FROM 314

FROM 315

FROM 316

FROM 317

FROM 318

FROM 319

FROM 320

FROM 321

FROM 322

FROM 323

FROM 324

FROM 325

FROM 326

FROM 327

FROM 328

FROM 329

FROM 330

FROM 331

FROM 332

FROM 333

FROM 334

FROM 335

FROM 336

FROM 337

FROM 338

FROM 339

FROM 340

FROM 341

FROM 342

FROM 343

FROM 344

FROM 345

FROM 346

FROM 347

FROM 348

FROM 349

FROM 350

FROM 351

FROM 352

FROM 353

FROM 354

FROM 355

FROM 356

FROM 357

FROM 358

FROM 359

FROM 360

FROM 361

FROM 362

FROM 363

FROM 364

FROM 365

FROM 366

FROM 367

FROM 368

FROM 369

FROM 370

FROM 371

FROM 372

FROM 373

FROM 374

FROM 375

FROM 376

FROM 377

FROM 378

FROM 379

FROM 380

FROM 381

FROM 382

FROM 383

FROM 384

FROM 385

FROM 386

FROM 387

FROM 388

FROM 389

FROM 390

FROM 391

FROM 392

FROM 393

FROM 394

FROM 395

FROM 396

FROM 397

FROM 398

FROM 399

FROM 400

FROM 401

FROM 402

FROM 403

FROM 404

FROM 405

FROM 406

FROM 407

FROM 408

FROM 409

FROM 410

FROM 411

FROM 412

FROM 413

FROM 414

FROM 415

FROM 416

FROM 417

FROM 418

FROM 419

FROM 420

FROM 421

FROM 422

FROM 423

FROM 424

FROM 425

FROM 426

FROM 427

FROM 428

FROM 429

FROM 430

FROM 431

FROM 432

FROM 433

FROM 434

FROM 435

FROM 436

FROM 437

FROM 438

FROM 439

FROM 440

FROM 441

FROM 442

FROM 443

FROM 444

FROM 445

FROM 446

FROM 447

FROM 448

FROM 449

FROM 450

FROM 451

FROM 452

FROM 453

FROM 454

FROM 455

FROM 456

FROM 457

FROM 458

FROM 459

FROM 460

FROM 461

FROM 462

FROM 463

FROM 464

FROM 465

FROM 466

FROM 467

FROM 468

FROM 469

FROM 470

FROM 471

FROM 472

FROM 473

FROM 474

FROM 475

FROM 476

FROM 477

FROM 478

FROM 479

FROM 480

FROM 481

FROM 482

FROM 483

FROM 484

FROM 485

FROM 486

FROM 487

FROM 488

FROM 489

FROM 490

FROM 491

FROM 492

FROM 493

FROM 494

FROM 495

FROM 496

FROM 497

FROM 498

FROM 499

FROM 500

FROM 501

FROM 502

FROM 503

FROM 504

FROM 505

FROM 506

FROM 507

FROM 508

FROM 509

FROM 510

FROM 511

FROM 512

FROM 513

FROM 514

FROM 515

FROM 516

FROM 517

FROM 518

FROM 519

FROM 520

FROM 521

FROM 522

FROM 523

FROM 524

FROM 525

FROM 526

FROM 527

FROM 528

FROM 529

FROM 530

FROM 531

FROM 532

FROM 533

FROM 534

FROM 535

FROM 536

FROM 537

FROM 538

FROM 539

FROM 540

FROM 541

FROM 542

FROM 543

FROM 544

FROM 545

FROM 546

FROM 547

FROM 548

FROM 549

FROM 550

FROM 551

FROM 552

FROM 553

FROM 554

FROM 555

FROM 556

FROM 557

FROM 558

FROM 559

FROM 560

FROM 561

FROM 562

FROM 563

FROM 564

FROM 565

FROM 566

FROM 567

FROM 568

FROM 569

FROM 570

FROM 571

FROM 572

FROM 573

FROM 574

FROM 575

FROM 576

FROM 577

FROM 578

FROM 579

FROM 580

FROM 581

FROM 582

FROM 583

FROM 584

FROM 585

FROM 586

FROM 587

FROM 588

FROM 589

FROM 590

FROM 591

FROM 592

FROM 593

FROM 594

FROM 595

FROM 596

FROM 597

FROM 598

FROM 599

FROM 600

FROM 601

FROM 602

FROM 603

FROM 604

FROM 605

FROM 606

FROM 607

FROM 608

FROM 609

FROM 610

FROM 611

FROM 612

FROM 613

FROM 614

FROM 615

FROM 616

FROM 617

FROM 618

FROM 619

FROM 620

FROM 621

FROM 622

FROM 623

FROM 624

FROM 625

FROM 626

FROM 627

FROM 628

FROM 629

FROM 630

FROM 631

FROM 632

FROM 633

FROM 634

FROM 635

FROM 636

FROM 637

FROM 638

FROM 639

FROM 640

FROM 641

FROM 642

FROM 643

FROM 644

FROM 645

FROM 646

FROM 647

FROM 648

FROM 649

FROM 650

FROM 651

FROM 652

FROM 653

FROM 654

FROM 655

FROM 656

FROM 657

FROM 658

FROM 659

FROM 660

FROM 661

FROM 662

FROM 663

FROM 664

FROM 665

FROM 666

FROM 667

FROM 668

FROM 669

FROM 670

FROM 671

FROM 672

FROM 673

FROM 674

FROM 675

FROM 676

FROM 677

FROM 678

FROM 679

FROM 680

FROM 681

FROM 682

FROM 683

FROM 684

FROM 685

FROM 686

FROM 687

FROM 688

FROM 689

FROM 690

FROM 691

FROM 692

FROM 693

FROM 694

FROM 695

FROM 696

FROM 697

FROM 698

FROM 699

FROM 700

FROM 701

FROM 702

FROM 703

FROM 704

FROM 705

FROM 706

FROM 707

FROM 708

FROM 709

FROM 710

FROM 711

FROM 712

FROM 713

FROM 714

FROM 715

FROM 716

FROM 717

FROM 718

FROM 719

FROM 720

FROM 721

FROM 722

FROM 723

FROM 724

FROM 725

FROM 726

FROM 727

FROM 728

FROM 729

FROM 730

FROM 731

FROM 732

FROM 733

FROM 734

FROM 735

FROM 736

FROM 737

FROM 738

FROM 739

FROM 740

FROM 741

FROM 742

FROM 743

FROM 744

FROM 745

FROM 746

FROM 747

FROM 748

FROM 749

FROM 750

FROM 751

FROM 752

FROM 753

FROM 754

FROM 755

FROM 756

FROM 757

FROM 758

FROM 759

FROM 760

FROM 761

FROM 762

FROM 763

FROM 764

FROM 765

FROM 766

FROM 767

FROM 768

FROM 769

FROM 770

FROM 771

FROM 772

FROM 773

FROM 774

FROM 775

FROM 776

FROM 777

FROM 778

FROM 779

FROM 780

FROM 781

FROM 782

FROM 783

FROM 784

FROM 785

FROM 786

FROM 787

FROM 788

FROM 789

FROM 790

FROM 791

FROM 792

FROM 793

FROM 794

FROM 795

FROM 796

FROM 797

FROM 798

FROM 799

FROM 800

FROM 801

FROM 802

FROM 803

FROM 804

FROM 805

FROM 806

FROM 807

FROM 808

FROM 809

FROM 810

FROM 811

FROM 812

FROM 813

FROM 814

FROM 815

FROM 816

FROM 817

FROM 818

FROM 819

FROM 820

FROM 821

FROM 822

FROM 823

FROM 824

FROM 825

FROM 826

FROM 827

FROM 828

FROM 829

FROM 830

FROM 831

FROM 832

FROM 833

FROM 834

FROM 835

FROM 836

FROM 837

FROM 838

FROM 839

FROM 840

FROM 841

FROM 842

FROM 843

FROM 844

FROM 845

FROM 846

FROM 847

FROM 848

FROM 849

FROM 850

FROM 851

FROM 852

FROM 853

FROM 854

FROM 855

FROM 856

FROM 857

FROM 858

FROM 859

FROM 860

FROM 861

FROM 862

FROM 863

FROM 864

FROM 865

FROM 866

FROM 867

FROM 868

FROM 869

FROM 870

FROM 871

FROM 872

FROM 873

FROM 874

FROM 875

FROM 876

FROM 877

FROM 878

FROM 879

FROM 880

FROM 881

FROM 882

FROM 883

FROM 884

FROM 885

FROM 886

FROM 887

FROM 888

FROM 889

FROM 890

FROM 891

FROM 892

FROM 893

FROM 894

FROM 895

FROM 896

FROM 897

FROM 898

FROM 899

FROM 900

FROM 901

FROM 902

FROM 903

FROM 904

FROM 905

FROM 906

FROM 907

FROM 908

FROM 909

FROM 910

FROM 911

FROM 912

FROM 913

FROM 914

FROM 915

FROM 916

FROM 917

FROM 918

FROM 919

FROM 920

FROM 921

FROM 922

FROM 923

FROM 924

FROM 925

FROM 926

FROM 927

FROM 928

FROM 929

FROM 930

FROM 931

FROM 932

FROM 933

FROM 934

FROM 935

FROM 936

FROM 937

FROM 938

FROM 939

FROM 940

FROM 941

FROM 942

FROM 943

FROM 944

FROM 945

FROM 946

FROM 947

FROM 948

FROM 949

FROM 950

FROM 951

FROM 952

FROM 953

FROM 954

FROM 955

FROM 956

FROM 957

FROM 958

FROM 959

FROM 960

FROM 961

FROM 962

FROM 963

FROM 964

FROM 965

FROM 966

FROM 967

FROM 968

FROM 969

FROM 970

FROM 971

FROM 972

FROM 973

FROM 974

FROM 975

FROM 976

FROM 977

FROM 978

FROM 979

FROM 980

FROM 981

FROM 982

FROM 983

FROM 984

FROM 985

FROM 986

FROM 987

FROM 988

FROM 989

FROM 990

FROM 991

FROM 992

FROM 993

FROM 994

FROM 995

FROM 996

FROM 997

FROM 998

FROM 999

FROM 1000

13

Rapid methods for testing waterproofing solutions
 N. N. Voznesenskii and V. N. Polunina. *Tekstil Prom.*
 3, No. 9, 12-13 (1943). To det. fat acids and paraffin in
 waterproofing emulsions, heat the emulsion to 70° and
 transfer 50 ml. of it to a 100-ml. graduated flask. Add 4
 ml. of 25% H_2SO_4 and keep at the temp. of boiling H_2O
 for 1 hr. The fat acids and the paraffin float to the top
 where their vol. is detd. by the graduation marks. To
 convert the vol. of the fatty substance into wt. values
 multiply by 0.77 (this value was arrived at empirically).
 To det. $FeSO_4$, add to a known vol. excess of a standard
 Na_2S soln., and titrate back with a standard plumbate
 soln., with 1% soln. of Na nitroprusside as external in-
 dicator. Det. Al by titrating with $NaHPO_4$. To 10
 ml. of Al soln. add 5 ml. of 10% $AcOH$ and 5 ml. of 10%
 $NaOH$ and titrate with a standard $NaHPO_4$ soln. (1%
 alc. soln. of alizarin red as external indicator). M. Hosh

ASB-ILA METALLURGICAL LITERATURE CLASSIFICATION

RECORD SHEET

RECORD SHEET

21

CA

Experiments on the use of sodium peroxide in the bleaching of cotton fabrics. V. M. Ponomarev. *Akhopchistobumashaya Prom.* 7, No. 7-8, 44-8; No. 9, 33-6

1 (1107); *Chem. Zvez.* 1938, I, 1036.—Various kinds of raw cotton fabrics and similar materials can be well bleached with peroxide; a preliminary boiling with alkali is unnecessary. Before heating, the fabric must be uniformly wet with the peroxide. Heating with H_2O_2 for 3 hrs. at 80-8° is sufficient. The material shows sufficient whiteness, capilarity and strength and is superior to the normal product in these respects. Such materials are stronger than those bleached with Cl_2 . The total consumption of peroxide for wetting the fabric and heating amounts to 2-3.25% Na_2O_2 or 0.87-1.4% H_2O_2 . Peroxymonate to 2-3.25% Na_2O_2 or 0.87-1.4% H_2O_2 . Peroxymonate and not Na_2O_2 is to be used. A concn. of 0.75 g. active O in the heating liquid is sufficient. The total alkali toward Me orange (water glass + $NaOH$) should be 5 g./l. Good results are obtained in bleaching fabrics of artificial silk, cotton + cottons, and part-linen fabrics. M. G. Moore

ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION

63111104

63111104

New synthesis of γ -diketones. Preparation of acetonylacetone. V. M. Rodionov and E. F. Polumna. *Doklady Akad. Nauk S.S.S.R.* **68**, 535-6 (1949), cf. Osipov and Korshun, *J. Russ. Phys. Chem. Soc.* **35**, 630 (1903). The Na deriv. of $\text{AcCH}_2\text{CO}_2\text{Et}$, from 4.6 g. Na and 28.6 g. ester, in 60 g. EtOH treated gradually with 27.2 g. BrCH_2Ac below 40° , stirred 1 hr. at 40° and 1 hr. at 50° – 60° , filtered, concd., then dild. with 20 ml. H_2O and extd. with Et_2O , gave 41% *Et acetonylacetate*, b_{10} 112–15°; *semicarbazone*, m. $220-1^\circ$ (from 30% EtOH). The product (16.28 g.) and 162.8 g. 20% K_2CO_3 refluxed 1 hr., cooled, treated with 25 g. K_2CO_3 and extd. with Et_2O gave 66% *acetonylacetone*, b_{10} 137°; *dioxime*, m. $136-7^\circ$. G. M. Kosolapoff

POLUNINA, Ye. F.

POLUNINA, Ye. F.; CHENTSOVA, M. G.; YAVORSKAYA, Ye. V.; RODIONOV, V. M.,
akademik, redaktor [deceased]; ZHUKOVA, I. G., redaktor; SACHEVA,
A. I., tekhnicheskij redaktor

[Manual on applied studies on organic chemistry for students in
schools of medicine] *Rukovodstvo k prakticheskim zaniatiyam po
organicheskoi khimii dlia studentov meditsinskikh institutov.* Pod
red. V. M. Rodionova. Moskva, Gos. izd-vo med. lit-ry, 1954. 110 p.
(MLRA 7:10)

1. Sotrudnik kafedry organicheskoy khimii II Moskovskogo medi-
tsinskogo instituta imeni I. V. Stalina (for Polunina, Chentsova,
Yavorskaya)

(Chemistry, Organic)

POLUNINA, E.F.

USSR/Chemistry - Pharmaceuticals

Card 1/1 Pub. 40 - 5/27

Authors : Rodionov, V. M., and Polunina, E. F.

Title : Effect of sulfuric acid on 2-methylthiophene

Periodical : Izv. AN SSSR. Otd. khim. nauk 6, 983-986, Nov-Dec 1954

Abstract : The sulfonation of individual thiophene derivatives, specifically synthetic 2-methylthiophene, was investigated. The effects of concentration and amount of sulfuric acid, temperature and time of reaction of the process of sulfonation are explained. In addition to a new type of sulfo-acid the products of 2-methylthiophene sulfonation also included highly water-soluble salts of other sulfo-acids. The new sulfo-acid-trimethyl-trithyenilsulfonic acid - was obtained by treating 2-methylthiophene with sulfuric acid at 25 - 30° in the presence of an indifferent solvent (petroleum ether). Six references: 3 USSR and 3 German (1886-1951). Table.

Institution : The I. V. Stalin 2-nd Medical Institute, Moscow

Submitted : February 15, 1954

CHUPAKHIN, Vasilii Mikhaylovich; BORISOGLEBSKIY, Aleksey Gennadiyevich;
DORMENKO, V.V., spetsred.; POLUNINA, Ye.M., red.; FORMALINA,
Ye.A., tekhn.red.

[Operation of fish processing equipment on BMRT type boats]
Ekspluatatsiya ryboobrabatyvalushchego oborudovaniia na BMRT.
Moskva, Vses.nauchno-issledovatel'skii in-t morskogo rybnogo
khodz. i okeanografii, 1959. 54 p. (MIRA 13:9)
(Fisheries--Equipment and supplies)

VOLKOV, Yu.I., inzh.; GAFANOVICH, A.A., kand.tekhn.nauk; GLADKOV, N.G.,
kand.sel'skokhoz.nauk; GORKUSHA, A.Ye., agr.; ZHITNEV, N.F., inzh.;
ZANIN, A.V., kand.tekhn.nauk; ZAUSHITSYN, V.Ye., kand.tekhn.nauk;
ZVOLINSKIY, N.P.; ZEL'TSERMAN, I.M., kand.tekhn.nauk; KAIPOV, A.N.,
kand.tekhn.nauk; KASPAROVA, S.A., kand.sel'skokhoz.nauk; KOLOTUSHKINA,
A.P., kand.ekon.nauk; KRUGLYAKOV, A.M., inzh.; KURNIKOV, I.I., inzh.;
LAVRENT'YEV, L.N., inzh.; LEBEDEV, B.M., kand.tekhn.nauk; LEVITIN,
Yu.I., inzh.; MAKHLIN, Ye.A., inzh.; NIKOLAYEV, G.S., inzh.;
POLESHCHENKO, P.V., kand.tekhn.nauk; POLUNOCHEV, I.M., agr.; P'YANKOV,
I.P., kand.sel'skokhoz.nauk; RABINOVICH, I.P., kand.tekhn.nauk;
SOKOLOV, A.F., kand.sel'skokhoz.nauk; STISHKOVSKIY, A.A., inzh.;
TURBIN, B.G., kand.tekhn.nauk; CHABAN, I.V., inzh.; CHAPKEVICH, A.A.,
kand.tekhn.nauk; CHERNOV, G.G., kand.tekhn.nauk; SHMELEV, B.M., kand.
tekhn.nauk; KRASNICHENKO, A.V., inzh., red.; KLETSKIN, M.I., inzh.,
red.; MOLYUKOV, G.A., inzh., red.; ELAGOSKLONOVA, N.Yu., inzh., red.;
UVAROVA, A.F., tekhn.red.

[Reference book for the designer of agricultural machinery in two
volumes] Spravochnik konstruktora sel'skokhoziaistvennykh mashin
v dvukh tomakh. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.
lit-ry. Vol.1. 1960. 655 p. (MIRA 13:11)
(Agricultural machinery--Design and construction)

POLUNOCHEV, I.M., mladshiy nauchnyy sotrudnik

Investigating the disintegration of soil aggregates in connection with
combine harvesting of potatoes. Trudy VISKHMa no.32:84-98 '62.
(MIRA 18:1)

POLJUNOCHEV, S., polkovnik, sekretar' partiynoy komissii pri politicheskoy upravlenii okruga.

The main thing is to prevent misdemeanors. Komm. Vooruzh. Sil 5
no.2:59-62 Ja '65. (MIRA 18:3)

POIUNOV, L.S., inzh.

Brief news. Priborostroenie no.12:30 D '65.

(MIRA 19:1)

PHASE I BOOK EXPLOITATION

SOV/4603

Polunov, Leon Solomonovich, and Vadim Ivanovich Gostev

Proyektirovaniye zavodskikh laboratoriy i sluzhb otдела tekhnicheskogo kontrolya;
Kratkoye spravochnoye posobiye (Planning of Plant Laboratories and Services of
the Inspection Department; Short Reference Book) Moscow, Mashgiz, 1960. 154 p.
Errata slip inserted. 6,000 copies printed.

Reviewers: M.A. Icannesyants, Engineer, and N.S. Kuznetsov, Engineer; Ed. of
Publishing House: V.I. Yakovleva; Managing Ed. for Information Literature: I.M.
Monastyrskiy, Engineer; Tech. Ed. G. Sorokina.

PURPOSE: This reference manual is intended for the personnel of design-planning
organizations, and for the supervisory personnel of plant inspection departments.

COVERAGE: The manual presents reference material on the composition, basic quan-
titative data and calculation of equipment for plant and shop laboratories, and
includes information on staffing, planning, required materials, equipment, and
tools. Methods of inspecting materials and intermediate and finished products
based on experience gained by inspection departments in automotive industry are

Card 1/4

Planning of Plant Laboratories and Services (Cont.)

SOV/4608

also presented. No personalities are mentioned. There are 12 references, all Soviet (including 1 translation from English).

TABLE OF CONTENTS:

PLANNING OF PLANT LABORATORIES. (BY L.S. POLUNOV, ENGINEER)

Central Plant Laboratories	
Composition of central plant laboratories	5
Basic quantitative data for planning	6
Calculation of equipment	8
Composition and description of equipment	9
Metallographic laboratory	14
Metallophysical laboratory	14
Thermal laboratory	15
X-ray laboratory	26
Engineering laboratory	26
Engineering workshop	27
Chemical laboratory	35
Spectrum laboratory	44
Chemical and technological laboratory	50
	50

Card-2/4

Planning of Plant Laboratories and Services (Cont.)

SOV/4608

X-ray laboratories	102
Metallographic laboratories	104
Plating shop laboratories	105
Defect-finding laboratories	106
Determination of staffing needs	106
Layout of shop laboratories	108
Bibliography	113

PLANNING THE SERVICES OF THE INSPECTION DEPARTMENT
(BY V. I. GOSTEV, ENGINEER)

Inspection operations in production technology	114
Statistical analysis and statistical control	117
Technological apparatus for the inspection department	123
Principles of automation of control	125
Organizational makeup of the inspection department	131
Calculation of floor area requirements for the inspection department	131
Calculation of equipment and manpower requirements for inspection operations	144
Bibliography	152

AVAILABLE: Library of Congress

Card 4/4

AC/wrc/gmp
12-20-60

POIUNOV, Leon Solomonovich; GOSTEV, Vadim Ivanovich; IOANNESYANTS, M.A.,
inzh., retsenzent; KUZNETSOV, N.S., inzh., retsenzent; YAKOVLEVA,
V.I., red.izd-va; SOROKINA, G., tekhn.red.

[Design of industrial laboratories and offices of the department
of technical control; brief manual] Proektirovanie zavodskikh
laboratorii i sluzhb otдела tekhnicheskogo kontrolya; kratkoe
spravochnoe posobie. Moskva, Gos.nauchno-tekhn.izd-vo mashino-
stroit.lit-ry, 1960. 154 p. (MIRA 13:4)
(Engineering laboratories)

SOV/32-25-8-43/44

28(4)
AUTHOR:

Polunov, L. S., Engineer

TITLE:

On the Standard Project of a Central Plant Laboratory of a
Machine Constructing Plant

PERIODICAL:

Zavodskaya laboratoriya, 1959, Vol 25, Nr 8, pp 1019-1020
(USSR)

ABSTRACT:

The Gosudarstvennyy institut po proyektirovaniyu traktornykh zavodov i zavodov sel'skokhozyaystvennogo mashinostroyeniya (State Institute for Designing Tractor Plants and Plants Constructing Agricultural Machinery) elaborated the project mentioned in the title for installations of the machine constructing and metal processing industries. The classifying of the central plant laboratories (CPL) was made according to the kind of plant. The plants were divided into three groups according to the type of machines they manufacture. The first group consists of plants producing machines working under especially difficult conditions (high temperatures and pressure, etc). In the second group are plants which manufacture machines which operate under high degree friction and abrasion strain, in aggressive media, at high velocities or pressure

Card 1/2

On the Standard Project of a Central Plant Laboratory of a Machine Constructing Plant

SOV/32-25-8-43/44

(automobiles, tractors, motors, heavy equipment for the electrotechnical and chemical industries, etc). Factories making large ball bearings belong to this group. The third group includes the remaining machine constructing factories which make for example machine tools, agricultural machinery, textile- and paper products machinery, etc. Concerning the output capacity the factories are also divided into three groups: mass and large-scale production, serial and small-series production and individual production. There is mention of several specialized (CPL). An increase of 20-25% of the controls of repeated testings, of 30-40% of the checking of technological processes and of 5-10% of such tests as are needed for research work is recommended. The extension of the last mentioned tests (as planned by the Gosstroy) is insufficient according to a note of the publishers. The article contains information on the size of several (CPL).

Card 2/2

28(4)

SOV/32-25-7-46/50

AUTHOR:

Polunov, L. S., Engineer

TITLE:

Scientific-technical Conference of the Workers of Plant Laboratories (Nauchno-tekhnicheskaya konferentsiya rabotnikov zavodskikh laboratoriy)

PERIODICAL:

Zavodskaya laboratoriya, 1959, Vol 25, Nr 7, p 892 (USSR)

ABSTRACT:

The conference mentioned in the title was convened by the Khar'kov Council of National Economy and the District Administration of the Nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti (Scientific-technical Association of the Machine Building Industry) in December 1958. The conference was divided into four sections: Section of Metallurgy and Thermal Treatment, Section of Physical Methods of Metal Control, Section for the Use of Radioactive Isotopes, and Section of Chemistry. 325 persons, members of 105 organizations took part in the conference; among them were scientists and engineers of works and institutes of the Khar'kov, Sumsk, and Poltava districts, of the Kolomenskiy zavod im. Kuybysheva (Kolomna Work imeni Kuybyshev), and the Ukrainskaya Akademiya nauk (Ukrainian Academy of Sciences). At the conference it was agreed upon the foundation of a central isotope laboratory for

Card 1/2

SOV/32-25-7-46/50

Scientific-technical Conference of the Workers of Plant Laboratories

the Khar'kov economic district, a coordination committee for improved planning of the research work at plant laboratories, and the fixing of Gosstroy standards concerning research work at plant laboratories. The next conference will take place in November 1959.

Card 2/2

POLUNOV, L.S.

Scientific and technological seminar for workers of industrial
laboratories. Zav.lab. 27 no.10:1319-1320 '61. (MIRA 14:10)
(Laboratories)

POLUNOV, L.S., inzh.

Scientific and Technical Conference of Workers of Industrial
Laboratories. Zav.lab. 25 no.7:892 '59. (MIRA 12:10)
(Testing laboratories--Congresses)

POLUNOV, L.S.

Increasing the reliability and the durability of machine
parts by heat and chemical heat treatment. Metalloved. 1
term. obr. met. no.11:60-61 N '65. (MIRA 18:12)

POLUNOV, M., dektor med. nauk (Odessa)

Reviews and bibliography. Azerb. med. zhur. 42 no. 10:
76-78 0 '65 (MIRA 19:1)

1. Ispolnyayushchiy obyazannosti ~~sav~~eduyushchego kafedroy
bolezney ukha, gorla i nosa Odesskogo meditsinskogo instituta
imeni N.I. Pirogova.

POLUNOV, M.Ya.

Application of Gordeev's solution in certain forms of scleroma of the upper respiratory tract. Vest. otorinolar., Moskva 14 no. 4:54-58
July-Aug. 1952. (CLML 22:5)

1. Of the Clinic for Diseases of the Ear, Throat, and Nose (Director -- Honored Worker in Science Bashkir ASSR Prof. S. V. Mikhaylovskiy), L'vov Medical Institute.

POLUNOV, M.Ya. (L'vov).

Truskavets mineral water therapy of diseases of the upper respiratory tract.
Vest.oto-rin. 15 no.4:33-35 J1-Ag '53. (MLRA 6:9)

(Mineral waters--Therapeutic use) (Respiratory organs--Diseases)

(Truskavets--Mineral waters) (Mineral waters--Truskavets)

KORNIYENKO, A.A.; POLUNOV, M.Ya.; MIKHAYLOVSKIY, S.V., professor, zasluzhennyy deyatel' nauki, direktor.

Scleroma of the respiratory tract in children. Vest.oto-rin. 15 no.4:90 J1-Ag '53. (MIRA 6:9)

1. Klinika bolesney ukha, gorla i nosa L'vovskogo meditsinskogo instituta. (Rhinoscleroma)

POLUNOV, M.Ya.

Treatment with ekmonovocillin I. of certain diseases of the ear, throat, and nose. Sovet. med. 17 no.4:35-36 Apr 1953. (GLML 24:4)

1. Of the Third Pediatric Gynecology Consultation Center and of the Polyclinical Division of the Third Amalgamated Hospital of Zheleznodorozhnyy Rayon, L'vov.

POLUNOV, M. Ya.

"The Utilization of 'Gordeyev' Solution No 1 and 2 During Certain Forms of Scleroma of the Nasal Passages." Cand Med Sci, Khar'kov State Medical Inst, L'vov, 1954. (KL, No 15, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

POLUNOV, M.Ya.

First Interprovince Conference of Otorhinolaryngologists held
in Lvov. Vest. oto-rin. 16 no.5:92-93 S-O '54. (MLRA 7:12)
(L'VOV--OTORHINOLARYNGOLOGY--CONGRESSES)

POLUNOV, M.Ya.

Ecmonovocillin-1 therapy of certain diseases of the ear and of the upper respiratory tract in children. *Pediatrics* no.1:39-41
Ja-F '55. (MLRA 8:5)

1. Iz 3-y detskoy polikliniki L'vova (zav. N.K.Sergeyeva)
(OTORHINOLARYNGOLOGY,
otorhinolaryngol. dis., ther., ecmonovocillin in child.)
(ANTIBIOTICS, therapeutic use,
ecmonovocillin in otorhinolaryngol. dis. in child.)

POLUNOV, M.Ya., kandidat meditsinskikh nauk (L'vov)

Some urgent problems in teaching otorhinolaryngology in medical
schools. Fel'd i akush.no.12:41-42 D '55. (MLRA 9:3)

(OTORHINOLARYNGOLOGY--STUDY AND TEACHING)

POLUNOV, M.Ye.

Treating ear, throat and nose diseases at the Truskavets health resort.

Vop. kur., fizioter. i lech. fiz. kul't. 22 no.1:64-65 Ja-F '57

(MLRA 10:4)

(TRUSKAVETS--MINERAL WATERS) (OTORHINOLARYNGOLOGY)

POLUNOV, M. Ya., kand. med. nauk

Influence of jute production dust on the activity of the esophageal
ciliated epithelium in the frog. Vest. otorin. no. 5:56-59 '61.
(MIRA 14:12)

1. Iz kliniki boleznay ukha, gorla i nosa (zav. - prof. L. A.
Zaritskiy) Odesskogo meditsinskogo instituta imeni N. I. Pirogova.

(EPITHELIUM) (DUST--PHYSIOLOGICAL EFFECT)

POLUNOV, M.Ya., kand.med.nauk

Effect of sea water and penicillin, streptomycin and ecmolin
solutions on the function of the ciliated epithelium. Zhur.
ush., nos. i gorl. bol. 21 no.5:56-61 S-O '61. (MLIA 15:1)

1. Iz kafedry bolezney ukha, gorla i nosa (zav. - prof. L.A.Zaritskiy)
Odesskogo meditsinskogo instituta imeni N.I.Pirogova.
(SEA WATER--PHYSIOLOGICAL EFFECT)
(ANTIBIOTICS--PHYSIOLOGICAL EFFECT) (CILIA AND CILIARY MOTION)

POLUNOV, Mikhail Yakovlevich, kand. med. nauk; GLUKHEN'KIY, T.T., red.;
CHUCHUPAK, V.D., tekhn. red.

[Principles of inhalation therapy] Osnovy ingaliatsionnoi terapii.
Kiev, Gosmedizdat, USSR, 1962. 212 p. (MIRA 15:6)
(INHALATION THERAPY)

POLUNOV, M.Ya., kand.med.nauk

Pathohistological changes following the action of Gordeev's solutions No.1 and No.2 on scleromous granuloma and cicatrices. Zhur. uzh., nos. i gorl. bol. 20 no.1:81 Ja-F '60. (MIRA 14:5)

1. Iz kafedry bolezney ukha, gorla i nosa (zav. - zasluzhennyy deyatel' nauki Bashkirskoy ASSR prof. S.V.Mikhaylovskiy) i kafedry patologicheskoy anatomii (zav. - prof. Ye.I.Pal'chevskiy) L'vovskogo meditsinskogo instituta.

(RHINOSCLEROMA)

POLUNOV M.Ya.

Functional changes in the ciliate epithelium of the esophagus in
frogs under the influence of dust from the superphosphate industry.
Vest. otorin. 22 no. 4: 54-57 Je-Ag '60. (MIRA 13:12)
(ESOPHAGUS) (DUST) (PHOSPHATES—TOXICOLOGY)

POLUNOV, M.Ya., kand.med.nauk (Odessa)

Treatment at an Odessa health resort of teachers with upper
respiratory tract diseases. Zhur. ush., nos. i gorl. bol.
20 no. 3:65 My-Je '60. (MIRA 14:4)
(RESPIRATORY ORGANS—DISEASES)

Polunov. M.Ye.

GARSHIN, M.I., dotsent; POLUNOV, M.Ye., kand.med.nauk

Conference of otorhinolaryngologists of Odessa Province. Vest.
oto-rin. 19 no.4:122-123 J1-Ag '57. (MIRA 10:11)
(OTORHINOLARYNGOLOGISTS)

KAMINSKIY, Ya., kand.ekonomicheskikh nauk (Kiyev); POLUNOV, V.,
kand.ekonomicheskikh nauk (Kiyev)

Development of storage arrangements in the Ukraine. Sov. tog.
34 no.8:47-50 Ag '61. (MIRA 14:8)
(Ukraine--Warehouses)

POLUNOV, V.
GOREDKO, V., nauchnyy sotrudnik; POLUNOV, V., nauchnyy sotrudnik.

Spread the selling of farm products on commission. Sov.torg.
no.1:45-47 Ja '58. (MIRA 10:12)

1.Kiyevskiy filial Nauchno-issledovatel'skogo instituta trgovli i
obshchestvennogo pitaniya.
(Farm produce--Marketing)

BERGER, I.; POLUNOV, V.

Designing standards and reality. Sov. torg. 33 no.12:17-19
D '59. (MIRA 13:2)

(Stores, Retail)

POLUNOV, V. (Kiyev)

Supply of the retail network and efficient use of warehouses.

Sov. torg. 33 no.5:12-14 My '60.

(MIRA 13:11)

(Ukraine--Delivery of goods) (Ukraine--Warehouses)

BEDRITSKIY, A.; POLUNOV, V. (Kiyev)

Introduce the bulk storage of sugar. Sov. torg. 34 no.10:39-40 0
'60. (MIRA 13:10)

(Ukraine--Sugar trade)

ZAIKIN, N.I., nauchnyy sotrudnik; POLUNOV, V.Ya., nauchnyy sotrudnik

Need for an expansion of business connections between textile industry enterprises and trade organizations. Tekst. prom. 23 no.6:16-19 Je '63. (MIRA 16:7)

1. Ukrainskiy nauchno-issledovatel'skiy institut trgovli i obshchestvennogo pitaniya.
(Textile industry)

YAKOVLEV, S.I., doktor med.nauk; DOROFYEV, G.I., kand.med.nauk; ONIKIYENKO,
B.A.; POLUNOVA, Ye.N.

Clinical aspects and remote results of the treatment of acute
poisoning with methyl alcohol. Voen.-med.zhur. no.3:40-44 Mr '61.
(MIRA 14:7)

(METHANOL—TOXICOLOGY)

POLUNOVSKIY, B. S., inzh.

Device IChMK-1-2-3 for measuring the frequency of mechanical vibrations in the refractories industry. Met. 1 gornorud. prom. no.1:82 Ja-F '63. (MIRA 16:4)

1. TSentral'noye byuro tekhnicheskoy informatsii Donetskogo soveta narodnogo khozyaystva.

(Vibration—Measurement)

(Refractories industry—Equipment and supplies)

POLUMOVSKIY, D.S. [Polanovs'kyi, D.S.]

Use of the automatic KZAM-100 caramel-wrapping machine for
wrapping soft candy. Khar. prom. no.1:61-62 Ja-Mr '63.
(MIRA 16s4)

(Wrapping machines)

AKIF'YEV, A.P.; MAKAROV, V.B.; POLUNOVSKIY, V.A.; YURCHENKO, V.V.

Study of chemical mutagenesis in a transplanted culture of
I-cells. Genetika no.3:19-26 S '65.

(MIRA 18:12)

1. 2-y Moskovskiy meditsinskiy institut. Submitted June 12,
1965.

SCV/89-7-2-14/24

21(8) 21(7)
 AUTHORS: Ivanova, V. V., Nazarov, A. I., Polunskaya, Ye. V., Khabakhpashev, A. G. Tsenter, E. M.

TITLE: Use of the $O^{18}(\alpha, n)Ne^{21}$ Reaction to Determine the Concentration of α -active Substances in Aqueous Solutions (Ispol'zovaniye reaktsii $O^{18}(\alpha, n)Ne^{21}$ dlya opredeleniya kontsentratsii α -aktivnykh veshchestv v vodnykh rastvorakh)

PERIODICAL: Atomnaya energiya, 1959, Vol 7, Nr 2, pp 166 - 168 (USSR)

ABSTRACT: The method mentioned in the title was first proposed by Ye. V. Polunskiy and A. I. Nazarov. A neutron detector is installed in a cylindric pipe closed at the bottom and located in a cylinder-shaped tank of 84 l contents (height 43 cm, diameter 50 cm). The tank is then filled with a radioactive solution. The pipe can be moved in such a way that the cylindric tank can be divided in equally sized zones by the different positions of the neutron detector; each of these zones can be measured. This possibility is needed for example for testing the sensitivity of the method (the measuring procedure is described). The method can be applied already with concentrations of 1-2 mc/l.

Card 1/3

Use of the $^{18}\text{O}(\alpha, n)^{21}\text{Ne}$ Reaction to Determine the
Concentration of α -active Substances in Aqueous Solutions

SOV/89-7-2-14/24

When the detector (SNM-9) is used with a lead filter, the concentration can still be measured with a γ -background of ~ 150 gramm equivalent/l. The condition of the solution has practically no influence on the neutron yield. If the concentration of nitric acid is changed from a 1 n solution to an 8 n solution, the neutron yield is only 2% less. The presence of ^{235}U and ^{239}Pu in the solution has the following effect: if the uranium concentration is 100 g/l (natural isotope composition) the neutron yield increases 2.6% due to the fission neutrons, but it decreases simultaneously by 3% due to the moderation. Therefore the uranium concentration has no influence if the α -radiation of the uranium has not to be considered. A plutonium concentration of 1 g/l increases the neutron yield by $\sim 10\%$. This fact has to be taken into consideration. The presence of light elements in the solution to be examined can cause errors in the results. The presence of following concentrations increases the neutron yield by only 1%: Be - 8 mg/l, Al - 1.4 g/l, Na - 0.42 g/l. Special advantage of the developed method is that the measurement can be carried out in any desired distance from

Card 2/3

Use of the $O^{18}(\alpha,n)Ne^{21}$ Reaction to Determine the SOV/89-7-2-14/24
Concentration of α -active Substances in Aqueous Solutions

the measured object and that the airtightness is not injured.
There are 3 figures and 2 Soviet references.

SUBMITTED: January 24, 1959

Card 3/3